

McAlpine Lock Replacement Project Update

as of Winter, 2006



**US Army Corps
of Engineers**
Louisville District



At left is a 2006 aerial photograph of the concrete construction work for the new lock and the progress on the fixed span bridge. Below is a rendering of the finished lock project.



Project Data

Location

Ohio River between mile 604.5 and 606.8. The McAlpine Locks are located in the historic Portland neighborhood off Northwestern Parkway at 27th Street, Louisville, Ky.

History of structure

110 x 1,200 ft. lock completed in 1961; 110 x 600 ft. auxiliary lock constructed in 1921; inactive 56 x 360 ft. lock dating back to 1860s. The two oldest locks have been demolished.

Annual tonnage

In 2003, the Lock Performance Monitoring System indicated 49 million tons of freight passed through McAlpine, the top commodity being coal-32%. Crude materials (aggregates, scrap steel)-26%; manufactured goods-12% ; chemicals-12%; petroleum-10%; farm products-5% and others-3%.

Project background

Increased barge traffic and deterioration of the auxiliary lock created the need for a new lock. A 110 x 1,200 ft. lock is under construction. The cost is approximately \$395 million. Construction began in 1996 with a resident office, wharf extension, and then gate storage piers in 1998. A two-lane, high lift fixed span concrete bridge is under construction for access to Shippingport Island.

Project phases

Phase 1:

Old lock demolition complete

Phase 2: New lock & fixed

bridge contract awarded Sept. 2002

Phase 3: Foundation rock

complete 2004

Current Phase:

Construct new lock; complete fixed bridge

Project complete: 2008

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Internet:

www.lrl.usace.army.mil/Mcalpine_specproj/